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## NOISE MARGIN SELF-DIAGNOSTIC RECEIVER LOGIC

### ABSTRACT

A noise margin self-diagnostic receiver circuit has been developed. The self-diagnostic circuit includes one comparator for comparing the signal voltage to a high reference voltage, a second comparator for comparing the signal voltage to a low reference voltage, and a logic circuit that activates an alarm if a noise error is detected. The circuit analyzes the data from the comparators and determines if a noise error has occurred.

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